1   1.   A method comprising:

2   detecting a color characteristic;

3   detecting motion; and

4   controlling a processor-based system based on the

5   detection of motion and a color characteristics.

1   2.   The method of claim 1 including controlling a

2   processor-based system based on the detection of flesh

3   color and the detection of a shape associated with a human

4   being.

1   3.   The method of claim 2 including determining

2   whether to process image data depending on whether both

3   motion and flesh are detected.

1   4.   The method of claim 2 including capturing a frame

2   of video at a time, and determining after capturing each

3   frame whether or not flesh color has been detected.

1   5.   The method of claim 4 including removing the

2   flesh color from the captured video.

1   6.   The method of claim 5 including moving an

2   animation object while capturing video and removing the

3   detected flesh color from the captured video.

1   7.   The method of claim 1 including capturing video

2   of an animation object in a plurality of different

3   positions and automatically removing an image of a user's

4   hand from the captured video.

1   8.   An article comprising a medium storing

2   instructions that enable a processor-based system to:

3   detect a color characteristic;

4   detect motion; and

5   control a processor-based system based on the

6   detection of motion and the color characteristic.

1   9.   The article of claim 8 further storing

2   instructions that enable the processor-based system to be

3   controlled based on the detection of flesh color and the

4   detection of a shape associated with a human being.

1   10.   The article of claim 9 further storing

2   instructions that enable the processor-based system to

3   determine whether to process image data depending on

4   whether motion and flesh are detected.

1   11.   The article of claim 9 further storing

2   instructions that enable the processor-based system to

3   capture a frame of video at a time and determine after

4   capturing each frame whether flesh color has been detected.

1   12. The article of claim 9 further storing

2 instructions that enable the processor-based system to

3 remove the flesh color from the captured video.

1   13. The article of claim 12 further storing

2 instructions that enable the processor-based system to

3 capture video of an animation object in a plurality of

4 different positions and automatically remove an image of a

5 user's hand from the captured video.

1   14. A system comprising:

2   a processor;

3   a storage coupled to said processor storing

4 instructions that enable the processor to detect motion and

5 a color characteristic and to control the system based on

6 the detection of motion and the color characteristic.

1   15. The system of claim 14 wherein said storage

2 further stores instructions that enable the processor to

3 detect a shape associated with a human being.

1   16. The system of claim 14 further storing

2 instructions that enable the processor to determine whether

3 to process image data depending on whether motion and flesh

4 color are detected.

1   17. The system of claim 14 including a digital imaging
2 device coupled to said processor.

1   18. A method comprising:
2   capturing a video image of a speaker;
3   receiving audio information from the speaker
4 through at least one microphone;
5   determining the user's position; and
6   based on the user's position, adjusting a
7 characteristic of the microphone.

1   19. The method of claim 18 including receiving audio
2 information from a pair of microphones and adjusting the
3 sensitivity of the microphones based on the relative
4 positioning of the user with respect to each microphone.

1   20. The method of claim 18 including tracking the
2 user's facial position in two dimensions and estimating the
3 user's facial position in a third dimension.

1   21. The method of claim 18 including tracking the
2 user's facial position in three dimensions.

1   22. The method of claim 18 including using a point of
2 source filter to adjust the audio information received from

3   the user and providing said adjusted audio information to a

4   speech recognition engine.

1   23. A system comprising:

2   a video capture device for capturing an image of a

3   user;

4   at least one microphone for capturing speech from

5   said user;

6   a device to determine the user's position with

7   respect to at least two microphones and to adjust the data

8   from each microphone in response to the user's position

9   relative to each microphone.

1   24. The system of claim 23 including a pair of video

2   cameras for capturing an image of said user.

1   25. The system of claim 23 including a two dimensional

2   face tracker that locates the user's face in two dimension.

1   26. The system of claim 23 including a three

2   dimensional face tracker that locates the user's face in

3   three dimensions.

1   27. The system of claim 23 including a point of source

2   filter to adjust the sensitivity of said microphones.

1   28.   A method comprising:

2   identifying a color;

3   identifying motion; and

4   using identified color and motion to implement

5   background segmentation.

1   29.   The method of claim 28 including determining areas

2   that are moving of a particular color.

1   30.   The method of claim 29 including identifying

2   objects that are connected to moving objects of a particular

3   color.